System for Processing Measuring Signals from a Sensor

Abstract

A system for processing the measuring signals from a sensor 12, including of a first micro-controller 10 having an input for the sensor data, a first memory 18, 19 and a first processor 16, and a second micro-controller 24 having a second memory 26, 30 and a second processor 27. A bus system 22 is provided that connects the first micro-controller 10 with the second micro-controller 24. The first memory 18, 19 stores data and instructions that are configured so as to be adapted to the sensor 12 and enable the conversion of the signals provided by the sensor 12 into data representing the variable to be measured. The first processor 16 executes the instructions stored in the first memory 18, and transfers the resulting data by way of the bus system 22 to the second micro-controller 24. The second memory 26, 30 stores sensor-independent data and instructions, which enable the processing, by the second microprocessor 27, of the data transferred by the bus system 22, representing the variable to be measured.